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(54) **MODIFIED KERNEL FOR IMAGE INTERPOLATION**

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(57) **ABSTRACT**

A method of providing a representation of image data is disclosed. The method accesses a plurality of discrete sample values of the image data and calculates kernel values for each of the discrete sample values using a scaled kernel. The scaled kernel is constructed by transforming a kernel from a first range to a second range. In order to provide a representation of the image data, the kernel values are convolved with the discrete sample values.

108 Claims, 14 Drawing Sheets